

### Abstract of the Disclosure

A method for detecting a polymerase chain reaction (PCR) product is provided. The method includes (a) providing at least a pair of electrodes in a PCR solution-containing vessel; (b) performing PCR; (c) producing an electric field  
5 between the electrodes; and (d) measuring a change in a dielectric property in the PCR solution. Therefore, a PCR product can be detected in real time.